

South Carolina Department of Health and Environmental Control
Office of Ocean and Coastal Resource Management
1362 McMillan Avenue, Suite 400
Charleston, South Carolina 29405

March 27, 2013

Permit Application Public Notice

Kinder Morgan Terminals, OCRM-13-053-B

The Department has received an application for a permit for the alteration of a critical area. The application was submitted pursuant to the Coastal Zone Management Act (Act 123) of 1977 South Carolina General Assembly. The application in brief, is described as follows:

Applicant: Kinder Morgan Terminals

Location: On and adjacent to Cooper River at 5165 Virginia Ave, North Charleston, Charleston County, South Carolina. TMS: 502-09-00-004.

Work: The work as proposed consists of installing additional structures at the existing facility. Specifically, the applicant seeks to add three breasting dolphins immediately adjacent to the existing pierhead at the NCT facility. The two proposed dolphins at the end of the pierhead will be the bipod type, while the middle dolphin will be the tripod type. Construction details are included on the permit drawings. The applicant also proposes to install an additional pipeline from the NCT pierhead to the Kinder Morgan bulk storage facility. The proposed pipeline will measure no more than 20" in diameter and will be located on the existing approach and structures. The pipeline will travel approximately 265' over the critical area. The project as described is to allow the facility to receive smaller vessels and improve services at the facility. Please Note: The proposed dolphins are being reviewed by the Army Corps of Engineers under their dock general permit and the pipeline is being reviewed under their Nationwide #12.

This public notice is being distributed to all known interested persons and agencies to assist in developing facts on which a decision by the Department can be based. Comments concerning the proposed work must be submitted in writing, setting forth sufficient detail to furnish a clear understanding of the reasons for support or opposition.

Comments regarding this application must be received by the Department on or before **April 26, 2013**. For more information, please contact Steve Brooks at 843-953-0235 or via email at brookss@dhec.sc.gov.

Note: Plans depicting the proposed work are available and will be provided upon receipt of a written request or may be viewed on the Department website at www.scdhec.gov/environment/ocrm/public_notice.htm

Section 31. Description of the Overall Project and of Each Activity in or Affecting U.S. Waters or State Critical Areas.

To receive smaller shipping vessels, Kinder Morgan Terminals (Kinder Morgan) North Charleston Terminal (NCT), located on the Cooper River at 5165 Virginia Ave., proposes to install three (3) breasting dolphins immediately adjacent to the existing pierhead at the NCT facility (see Figure 2).

The two proposed breasting dolphins located at the ends of the pierhead will be of the bipod type, which is constructed of a single 24" steel plum pile and a single 18" battered steel pile. The middle breasting dolphin will be of the tripod type, which is constructed of a single 24" steel plum pile and two, 18" battered steel piles. The breasting dolphins will be constructed with pipe bollards and a fender system. Twelve-inch (12") steel pipes will connect the proposed breasting dolphins for cross-bracing and support, which allows the breasting dolphins located at the ends of the pierhead to be of the bipod type, rather than the tripod type. (See Figure 3 and Drawings S0001, GA0001, and S0003)

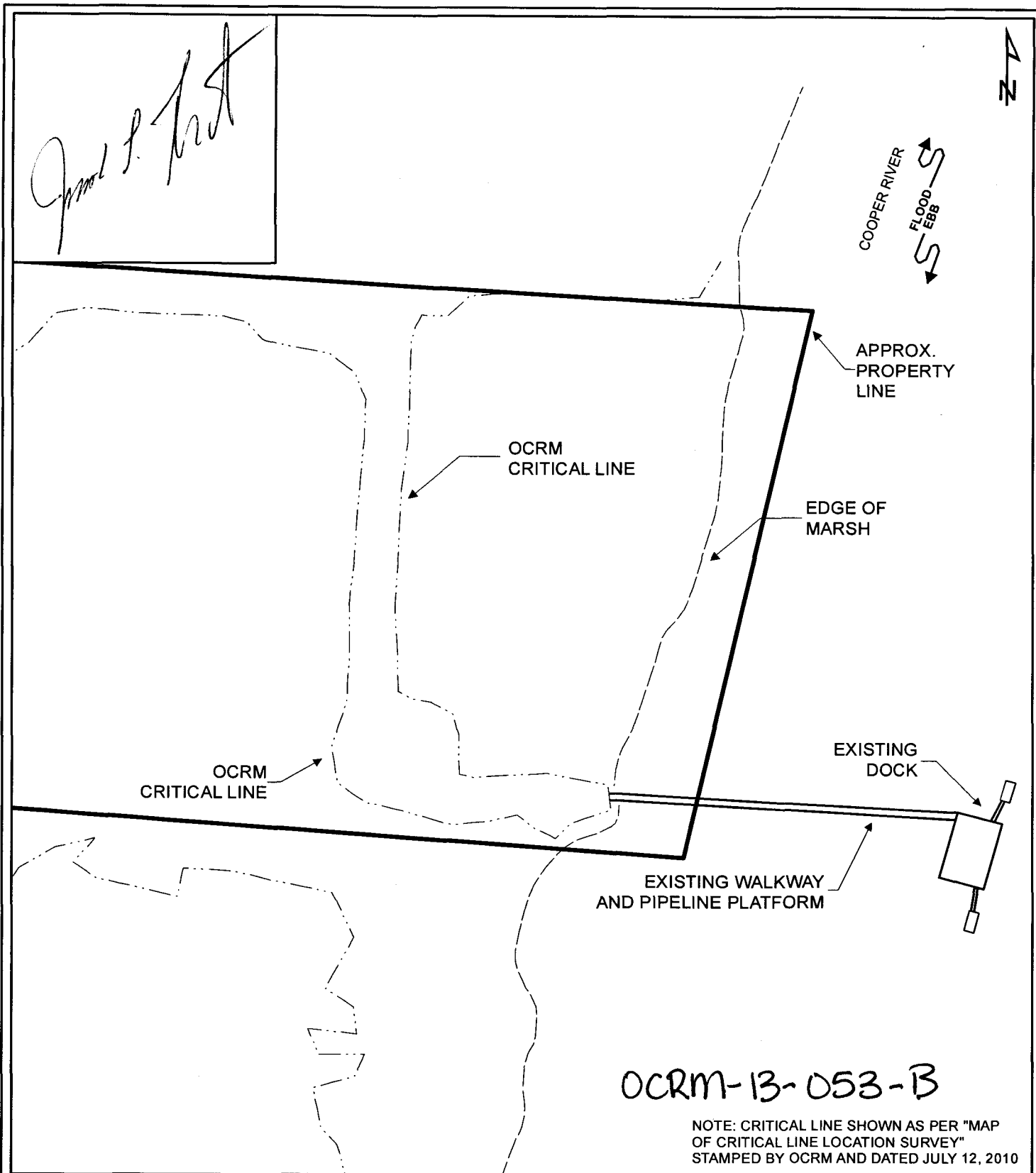
Kinder Morgan also proposes to install an additional pipeline that extends from the NCT pierhead to the Kinder Morgan bulk storage facility located west of Virginia Avenue (see Figure 3). The proposed pipeline will measure no more than 20" in diameter and will be located on the existing approach and structural bents and immediately adjacent to the two (2) existing pipelines. No modification to the approach and structural bents are necessary that will impact the critical area. The pipeline will travel approximately 265' over waters of the Cooper River and critical area. Once the pipe enters the upland portions of the site from the pierhead, the pipeline will travel outside of the OCRM-verified critical line.

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CHARLESTON OFFICE

Kinder Morgan
OCRM-13-053-B



PURPOSE: DOLPHIN AND PIPELINE INSTALLATION

ADJACENT PROPERTY OWNER
HESS CORPORATION
DELFIN GROUP USA, LLC

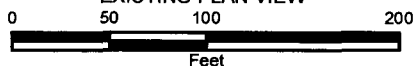
DATUM: NGVD 29

SHEET 2 OF 6

DATE: 2/4/2013

FIGURE 2

EXISTING PLAN VIEW



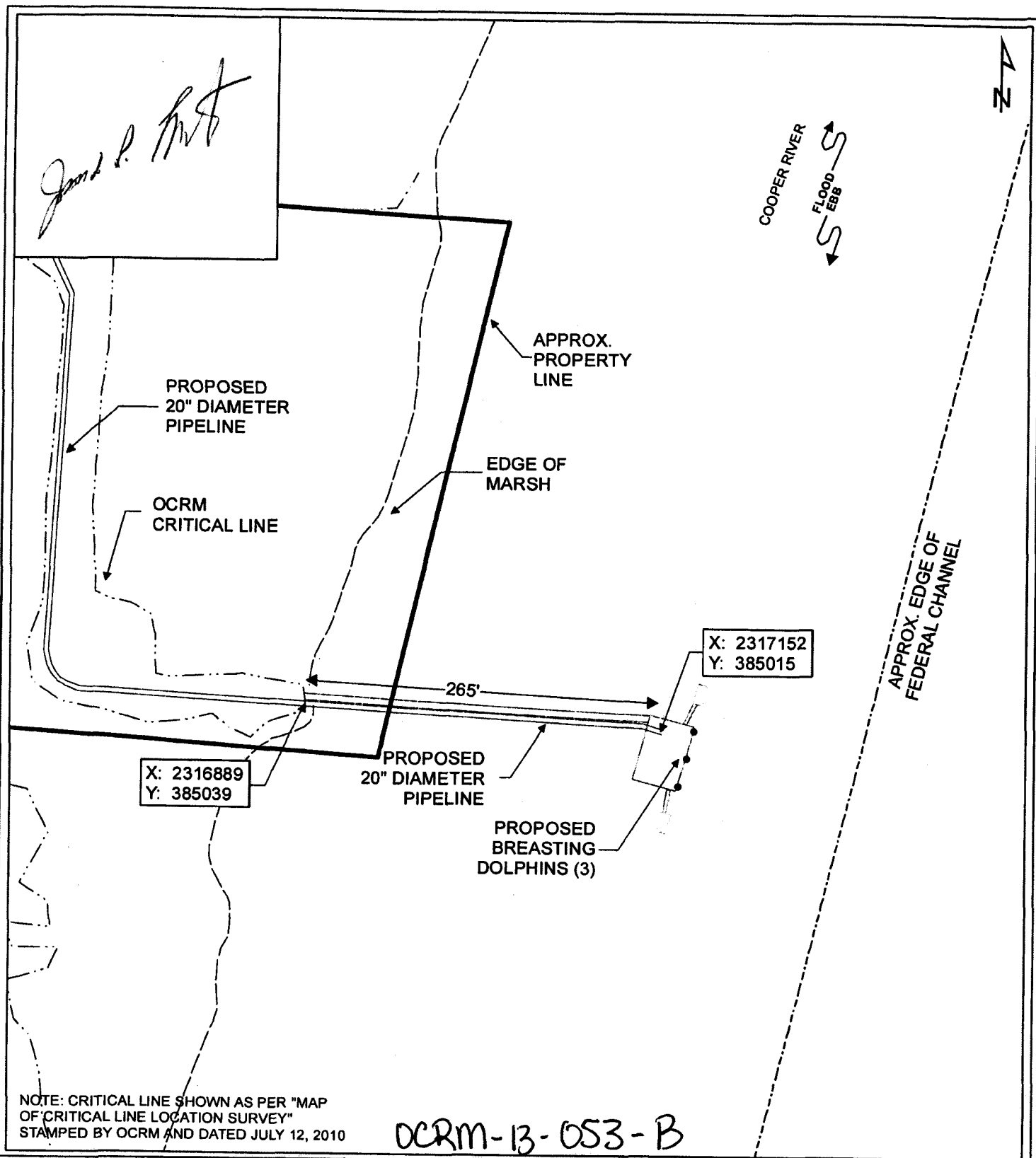
NORTH CHARLESTON TERMINAL
KINDER MORGAN BULK TERMINALS
CHARLESTON, SOUTH CAROLINA

PROPOSED: BREASTING DOLPHIN AND PIPELINE INSTALLATION

AT: NORTH CHARLESTON TERMINAL

IN: COOPER RIVER

COUNTY OF: CHARLESTON, SOUTH CAROLINA



PURPOSE: DOLPHIN AND PIPELINE INSTALLATION

ADJACENT PROPERTY OWNER
HESS CORPORATION
DELFIN GROUP USA, LLC

DATUM: NGVD 29

SHEET 3 OF 6

DATE: 3/12/2013

FIGURE 3A

PROPOSED PLAN VIEW



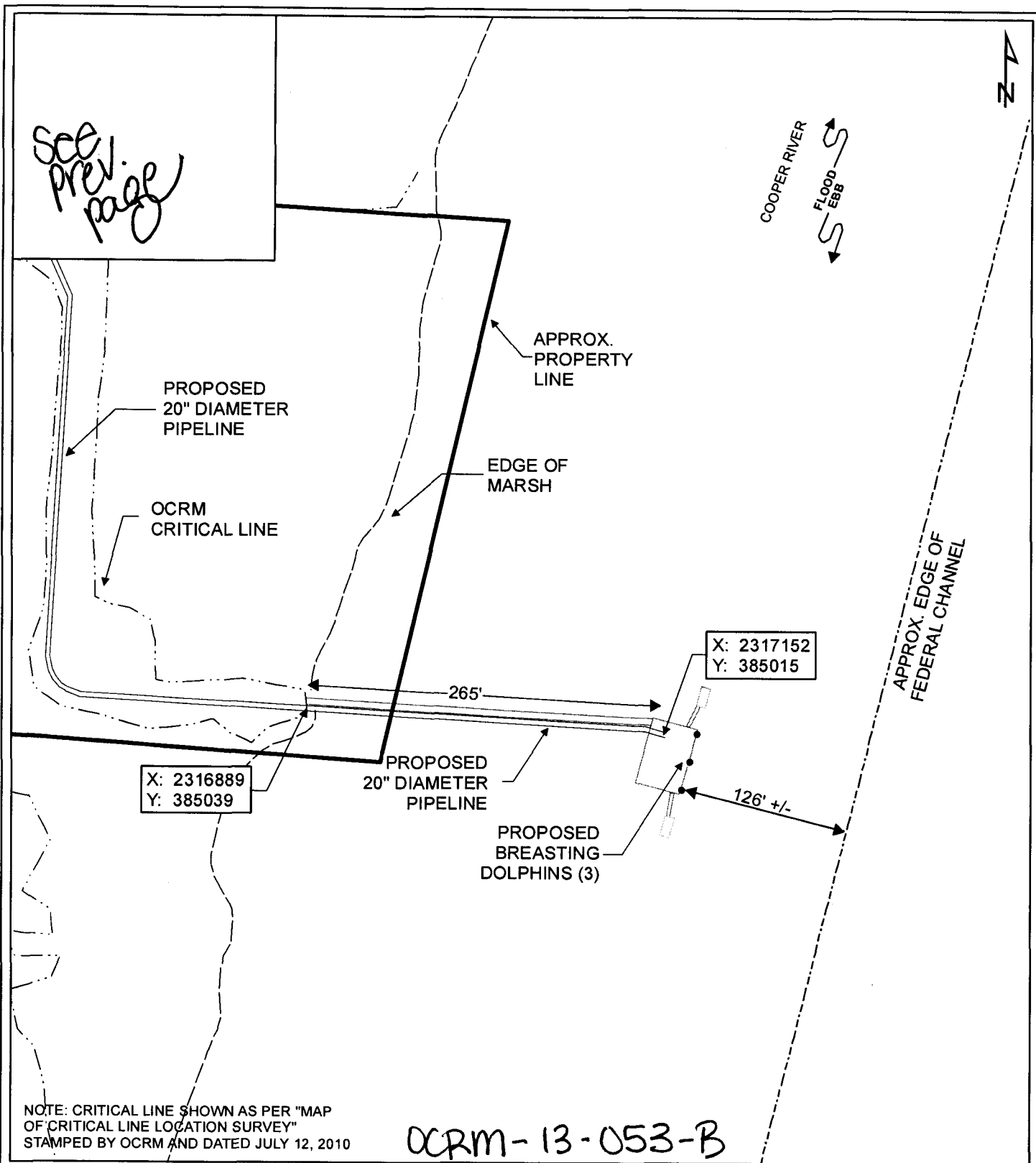
NORTH CHARLESTON TERMINAL
KINDER MORGAN BULK TERMINALS
CHARLESTON, SOUTH CAROLINA

PROPOSED: BREASTING DOLPHIN AND PIPELINE INSTALLATION

AT: NORTH CHARLESTON TERMINAL

IN: COOPER RIVER

COUNTY OF: CHARLESTON, SOUTH CAROLINA



PURPOSE: DOLPHIN AND PIPELINE
INSTALLATION

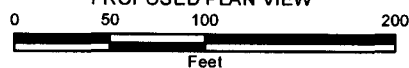
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HESS CORPORATION
DELFIN GROUP USA, LLC

DATUM: NGVD 29

SHEET 3 OF 6

DATE: 3/12/2013

FIGURE 3B
PROPOSED PLAN VIEW



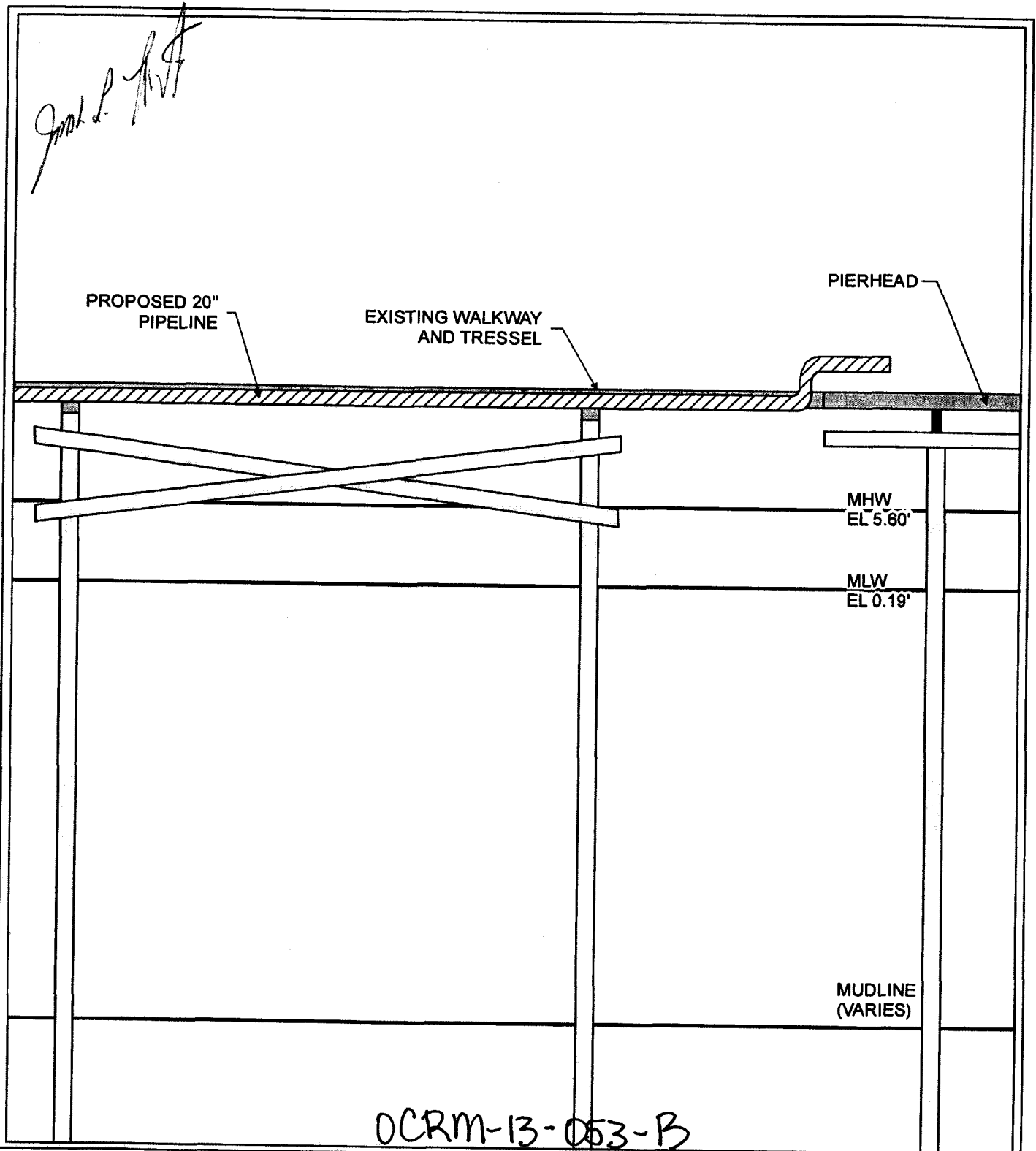
NORTH CHARLESTON TERMINAL
KINDER MORGAN BULK TERMINALS
CHARLESTON, SOUTH CAROLINA

PROPOSED: BREASTING DOLPHIN AND
PIPELINE INSTALLATION

AT: NORTH CHARLESTON TERMINAL

IN: COOPER RIVER

COUNTY OF: CHARLESTON, SOUTH CAROLINA



PURPOSE: DOLPHIN AND PIPELINE
INSTALLATION

ADJACENT PROPERTY OWNER
HESS CORPORATION
DELFIN GROUP USA, LLC

DATUM: NGVD 29

SHEET 4 OF 6

DATE: 3/15/2013

FIGURE 4

PROPOSED ELEVATION VIEW
20" PIPELINE

NOT TO SCALE

NORTH CHARLESTON TERMINAL
KINDER MORGAN BULK TERMINALS
CHARLESTON, SOUTH CAROLINA

PROPOSED: BREASTING DOLPHIN AND
PIPELINE INSTALLATION

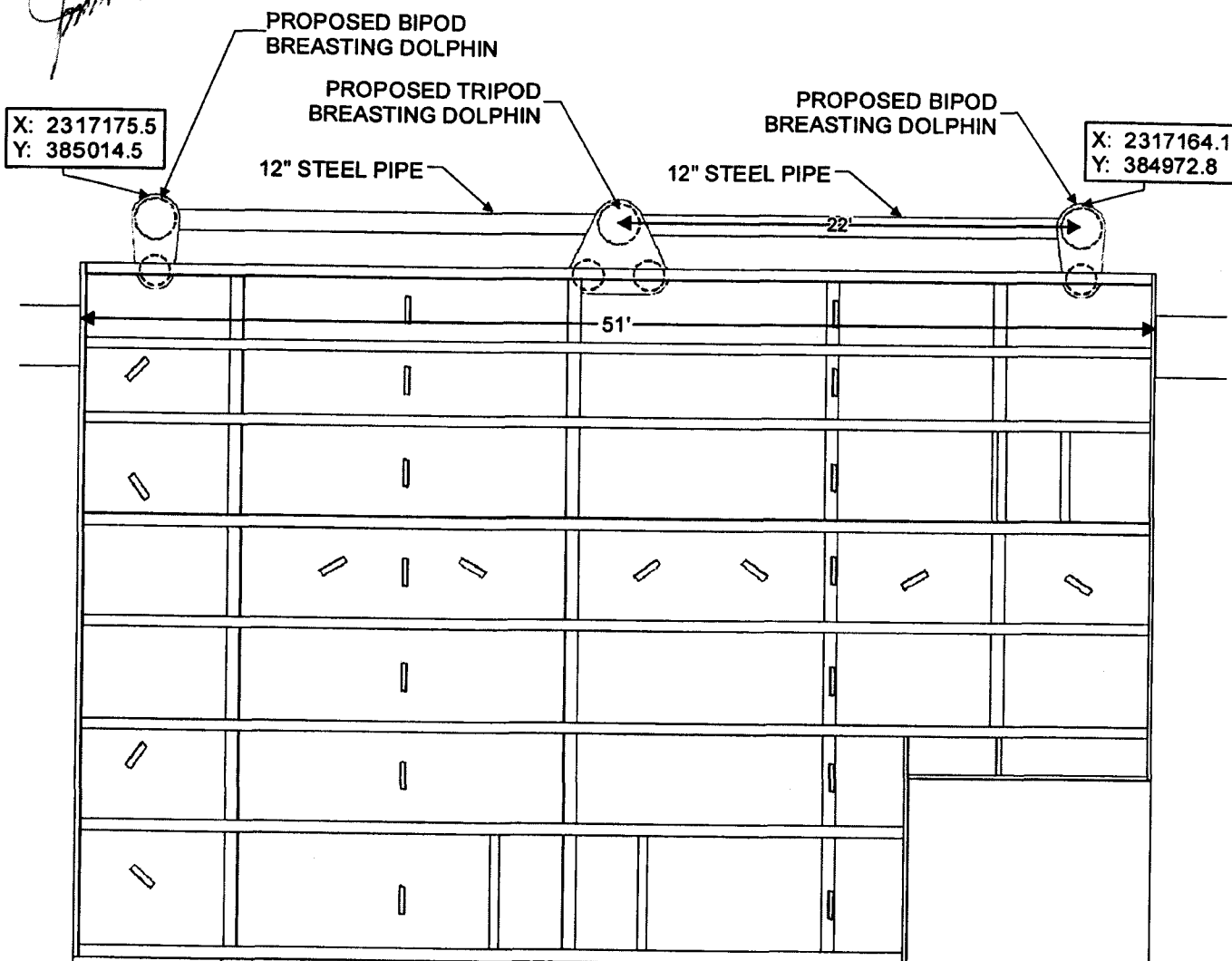
AT: NORTH CHARLESTON TERMINAL

IN: COOPER RIVER

COUNTY OF: CHARLESTON, SOUTH CAROLINA

12

John P. Smith



OCRM-13-053-B

PURPOSE: DOLPHIN AND PIPELINE
INSTALLATION

ADJACENT PROPERTY OWNER

HESS CORPORATION
DELFIN GROUP USA, LLC

DATUM: NGVD 29

SHEET 5 OF 6

DATE: 3/15/2013

FIGURE 5

PROPOSED PLAN VIEW
BREASTING DOLPHINS

NOT TO SCALE

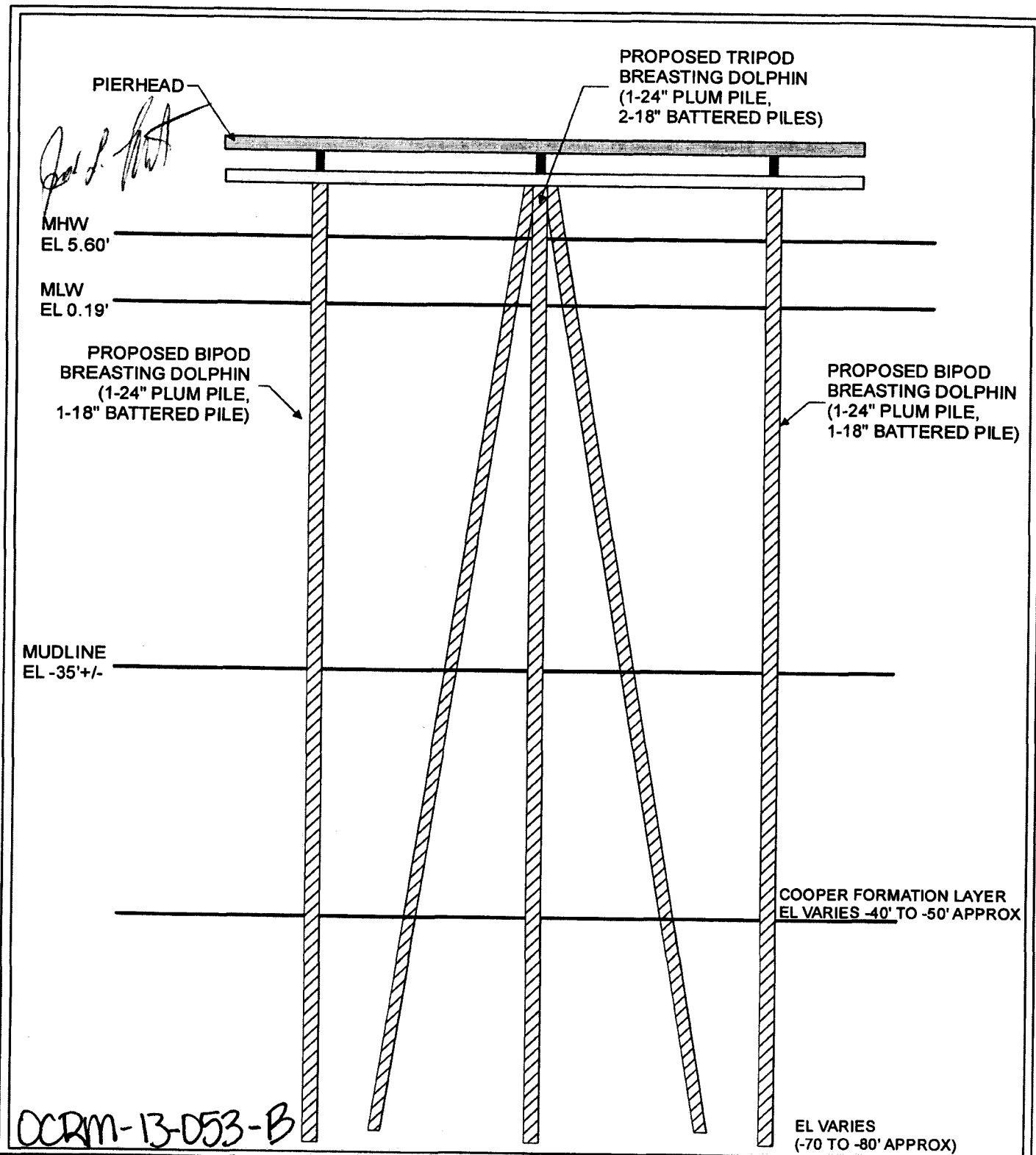
NORTH CHARLESTON TERMINAL
KINDER MORGAN BULK TERMINALS
CHARLESTON, SOUTH CAROLINA

PROPOSED: BREASTING DOLPHIN AND
PIPELINE INSTALLATION

AT: NORTH CHARLESTON TERMINAL

IN: COOPER RIVER

COUNTY OF: CHARLESTON, SOUTH CAROLINA



PURPOSE: DOLPHIN AND PIPELINE
INSTALLATION

ADJACENT PROPERTY OWNER
HESS CORPORATION
DELFIN GROUP USA, LLC

DATUM: NGVD 29

SHEET 6 OF 6

DATE: 3/15/2013

FIGURE 6

PROPOSED ELEVATION VIEW
BREASTING DOLPHINS

NOT TO SCALE

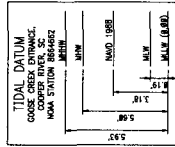
NORTH CHARLESTON TERMINAL
KINDER MORGAN BULK TERMINALS
CHARLESTON, SOUTH CAROLINA

PROPOSED: BREASTING DOLPHIN AND
PIPELINE INSTALLATION

AT: NORTH CHARLESTON TERMINAL

IN: COOPER RIVER

COUNTY OF: CHARLESTON, SOUTH CAROLINA



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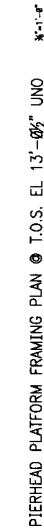
RAIN

APPROVED _____ DA _____ WAGNER _____

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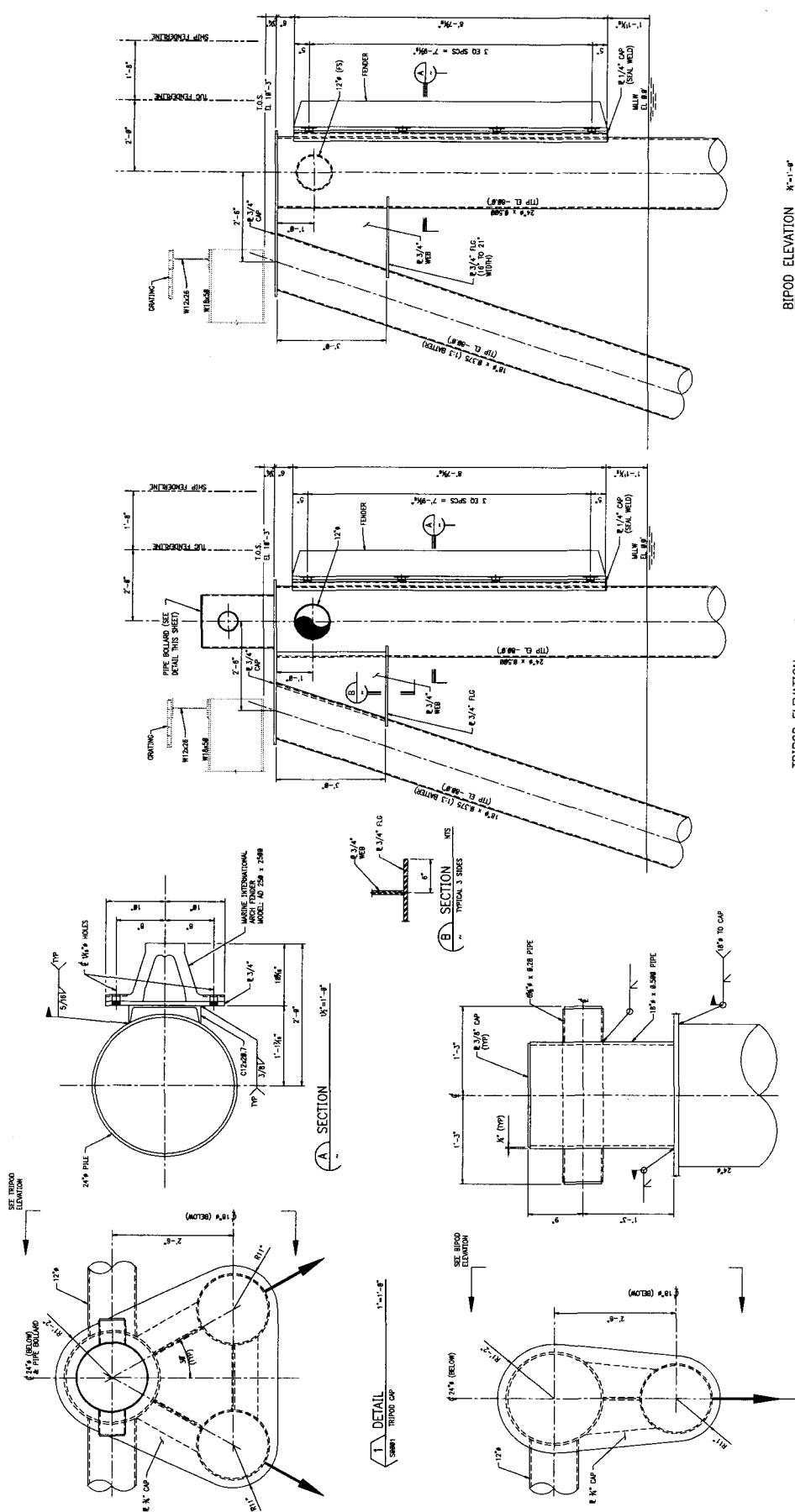
CRM-13-053-B

KINDERMORGAN

NORTH CHARLESTON MARINE TERMINAL

PIERHEAD PLATFORM REPAIRS

S0001

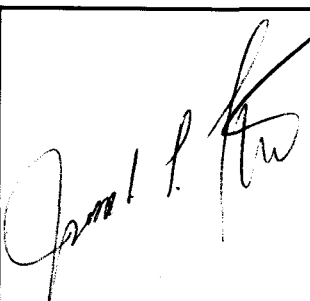
BIPOD ELEVATION $X^2 = 1 - 0^2$

TRIPOD ELEVATION $K^2 = 1^{\circ} - 6^{\circ}$

PIPE BOLLARD DETAIL 14"=1'-0"

DCRM-13-053-B

[illegible]



PIPELINE INSTALLATION
OCRM-13-053-B

SURVEY DATUM: NGVD 29

NOT TO SCALE

KINDER MORGAN TERMINALS
NORTH CHARLESTON MARINE TERMINAL
NORTH CHARLESTON, SOUTH CAROLINA

AT: NORTH CHARLESTON

COUNTY OF: CHARLESTON
SOUTH CAROLINA

DATE: 01/30/2013